



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Sanberg, et al.

Examiner:

To be assigned

Serial No.:

09/526,403

Art Unit:

1614

Filed:

March 15, 2000

Docket No.:

T103 F1016.1

(Prior Doc. No. L01-03CIP3)

For:

Method of Treating Cognitive Deficits in Learning and Memory

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Applicants hereby voluntarily disclose the references listed on the attached Form PTO-1449 to the Commissioner for Patents. This Information Disclosure Statement is being submitted prior to the mailing of a first Office Action on the merits of the application. Accordingly, no fees are due.

Copies of the following references are listed on the attached Form PTO-1449 and are enclosed: D3-D4; D7-D10; D12-D14; D17-D20; D26-D28; D33 and D36. References P1 through P11 and References D1-D2; D5-D6; D11; D15-D16; D21-D25; D29-D32; D34-D35 and D37-D43 are listed on the attached Form PTO-1449 and should be available in corresponding Application Nos. 09/198,882 or 08/935,364 as all references were either previously provided by Applicants or were cited by the Examiner. However, Applicants will provide any necessary copies upon request.

Document D7 is a German language document published with an English language abstract. The abstract appears to suggest that the document comprises a discussion of effects of nicotine in the central nervous system, especially in the dopiminergic and cholinergic systems.

Appln No. 09/526,403 EL 984 914 702 US

This statement should not be construed as the representation that any search has been made, or that the information cited herewith is material, or that there does not exist information more material to the examination of the present Application. The Examiner is specifically requested not to rely solely on the information submitted herein. On the contrary, the Examiner is requested to conduct an independent and thorough review of all available information, and to form independent opinions as to its significance.

Applicants further reserve the right to establish the patentability of the claimed invention over any of the listed information should they be applied as references, and/or to prove that the cited information may not be prior art, and/or to prove that the cited information may not be enabling for the teachings they purport to offer.

The Examiner is respectfully requested to initial and return copies of the enclosed Form PTO-1449 and to indicate in the official file wrapper of the above-identified patent application that each item of the cited information has been considered.

Respectfully submitted,

Date: 1 2003

Carl B. Massey, Jr.

Registration No. 44,224 Attorney for Applicants

Mul

Docket: T103 F1016.1

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FORM PTO-1442 U.S. PARTMENT OF COMMERCE THE TENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE

ATTY DKT NO. T103 F1016.1 SERIAL NO. 09/526,403

APPLICANT

Paul R. Sanberg, et al.

FILING DATE 03/15/2000

GROUP

TATEMENT	BY	APPLICAN	T _	

EXAMINER		DOCUMENT	DATE	NAME	CL.	SUBCL	FILD	NG DATE
INITIAL		NO.		<u> </u>			IF A	APPROP.
	P1	2,831,027	4/1958	Pfister, III, et al.	260	563		
	P2	2,894,987	7/1959	Gustav, et al.	260	563		
	P3	3,148,118	9/1964	Thesing, et al.	167	65		
	P4	3,164,601	1/1965	Thesing, et al.	260	294.7		
	P5	4,837,218	6/1989	Olney	514	646		
	P6	4,891,380	1/1990	Williams, et al.	514	353		
	P7	5,554,610	9/1996	Williams, et al.	514	223.2		
	P8	5,574,052	11/1996	Rose, et al.	514	343		
	P9	5,583,140	12/1996	Bencherif, et al.	514	299		
	P10	5,691,365	11/1997	Crooks, et al.	514	343		
	P11	5,859,004	1/1999	Olesen	514	214		
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U.S. PATENT DOCUMENTS

EXAMINER DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Förm PTO-1449)

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FORM I	PTO-14		ATTY DKT NO.	SERIAL NO.		
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		STATEMENT BY APPLICANT	03/15/2000			
THER D		ENTS (Incl. Author, Title, Date, Pertinent pages, etc.)				
EMPR THE	D1	Ballivet, et al., "Nicotine Acetylcholine elegans," JMB.,				
	D2	Banerjee, et al., "[3H]Mecamylamine Binding to Rat Brain No. 9, pp. 2105-2110 (1990)				
•	D3	Bianchi, C. and L. Tomasi, "Central nervous system and auto some standard anti-Parkinson drugs," <i>Pharmacology</i> , 10(4).	226-237 (1973).			
•	D4	Bruun, R.D. and C.L. Budman, "Risperidone as a treatment for Tourette's syndrome," <i>J.Clin. Psychiatry</i> , 57(1): 29-31 (1996).				
	D5	Emerich, et al., "Nicotine Locomotor Hypoactivity," <i>Pharm. Biochem. & Behav.</i> , Vol. 38, pp. 875-880 (1991)				
	D6	Emerich, et al., "Nicotine of Haloperidol, Psychopharm.	Bulletin., Vol. 27(3): 385	-390 (1991).		
à -	D7	Erdmann, R., "Nicotine in neuropsychiatric movement disorders," Fortschr Neurol Psychiatr., 64(9): 362-366 (1996).				
•	D8	Freund, R.K., et al., "Nicotine effects in mouse hippocampus are blocked by mecamylamine, but not other nicotinic antagonists," <i>Brain Res.</i> , 511(2): 187-191 (1990).				
1	D9	Ghaemi, S.N., et al., "Acute treatment of bipolar disorder with adjunctive risperidone in outpatients," Can. J. Psychiatry, 42(2): 196-199 (1997).				
•	D10	Green, M.F., et al., "Does Risperidone Improve Verbal Working Memory in Treatment-Resistant Schizophrenia?" American Journal of Psychiatry, 154(6): 799-804 (1997).				
	D11	Hsu, W., "Toxicity and Drug Interactions of Levamisole," Hpp. 1166-1169 (May 1980)	AVMA, Vol. 176, No. 10,			
ŕ	D12	Ivanová, S. and A. J. Greenshaw, "Nicotine-induced decrease blockade by haloperidol and mecamylamine but not scopolar 134(2): 187-192 (1997).				
	D13	Jankovic, J. and H. Rohaidy, "Motor, behavior and pharmacon Neurol. Sci., 14(3 Suppl.): 541-546 (1987).	ologic findings in Tourett	e's Syndrome," Can. J.		
	D14	Jolles, J., et al., "Cognitive Impairment in Elderly People," L	Drugs & Aging, 7(6): 459-	479 (1995).		
	D15	The Lancet, "Nicotine Gum & Haloperidol in Tourette's Syn				
	D16	The Lancet, "Transdermal nicotine patch in Tourette's Sy				
	D17	Levin, E. D. and D. Torry, "Acute and chronic nicotine effects on working memory in aged rats," Psychopharmacology, 123: 88-97 (1996).				
	D18	Lindström, E., et al., "Efficacy and safety of risperidone in the long-term treatment of patients with schizophrenia," Clin. Ther. 17(3): 402-412 (1995).				
	D19	Lombroso, P.J., et al., "Risperidone treatment of children and adolescents with chronic tic disorders: a preliminary report," J. Am. Acad. Child Adolesc. Psychiatry, 34(9): 1147-1152 (1995).				
	D20	Lomboros, P.J., et al., "Risperidone treatment of children and adolescents with chronic tic disorders: a preliminary report," J. Am. Acad. Child Adolesc. Psychiatry, 35(3): 394 (1966).				
	D21	McConville, et al., "The Effects in Tourette's Disorder,"		(8): 832-840 (1992)		
	D22	McConville, et al., "Nicontine in Tourette's Syndrome,"				
	D23	Pharmacol Ther., "Nicotine for the Treatment of Tourette's Syndrome," Vol. 74, No. 1, pp. 21-25 (1997)				
	D24	Psychopharmacologia (Berl.), "Nicotine-Like after N				
XAMINE			E CONSIDERED			

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO	1449	U.S. DEPARTMENT OF COMMERCE	ATTY DKT NO.	SERIAL NO.				
		PATENT AND TRADEMARK OFFICE	T103 F1016.1	09/526,403				
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	Z	STATEMENT BY APPLICANT	03/13/2000					
	OTHERS CUMENTS (Incl. Author, Title, Date, Pertinent pages, etc.)							
Turn	D25 Rupniak, et al. "Antinociceptive and Toxic Effect Attributable to Nicotinic Agonist Activity," Brit. J.							
		Pharmacol., 113(4): 1487-1493 (1994)						
	D26	Sallee, F.R., et al., "Effects of pimozide on cognition in children with Tourette syndrome: interaction with						
	_	comorbid attention deficit hyperactivity disorder," Acta.l Psychiatr. Scand., 90(1): 4-9 (1994).						
	D27	Sallee, F.R, et al., "Pharmacokinetics of pimozide in adults	and children with Tourette	e's syndrome," <i>J. Clin</i> .				
		Pharacol., 27(10): 776-781 (1987)						
	D28	Sallee, F.R., et al., "Relative efficacy of haloperidol and pimozide in children and adolescents with Tourette's						
		disorder," Am. J. Psychiatry, 154(8): 1057-1062 (1997).						
	D29	Sanberg, et al., "Nicotine as a Therapeutic Adjunct for Tourette's Syndrome," pp. 35-41 (1997)						
	D30	Sanberg, et al., "Nicotine with Tourette's Syndrome," Biomed & Pharmacother., 43, pp. 19-23 (1989)						
Annua Annua	D31	Sanberg, et al., "Nicontine Striatal Mechanisms," Pharmacol. Biochem & Behavior, Vol. 46: 303-307 (1993)						
	D32	Sano Corporation website (1997)						
]]	D33	Sawada, S., et al., "Augmenting action of nicotine on population spikes in the dentate gyrus of the guinea pig,"						
		Neurosci Res., 20(4): 317-322 (1994).						
]]	D34	Schonenberger, et al., "Preparation of Optically Active ," Helvetica Chimica Acta, Vol. 69, pp. 283-287						
		(1986).						
	D35	Seumaru, et al., "Characteristics of tail-tremor induced by nicotine in rats," Naonyn-Schmledeberg's Arch						
		Pharmacol, 350:153-157 (1994).						
]]	D36	Shapiro, E., et al., "Controlled study of haloperidol, pimozide and placebo for the treatment of Gilles de la						
		Tourette's syndrome," Arch. Gen. Psychiatry, 46(8): 722-730						
	D37	Shieh, et al., "Sexual Differences in the Diurnal Changes of Neuron Activity in Rat: Role of Cholinergic						
<u> </u>		Control," Biology of Reproduction, Vol. 54, pp. 987-992 (1996)						
	D38	Shytle, et al., "Nicotine, Tobacco and Addiction," Int'l Weekly Journal of Science, Vol. 384, PP. 18-19 (1997)						
	D39	Shytle, et al., "Researchers Exploring TS Treatment," Tourette Syn. Assoc., 25(1): 1, 3, 7 (1997)						
[]	D40	Shytle, et al., "Transdermal Nicotine for Tourette's Syndrome," Drug Development Research, Vol. 38, pp. 290-						
		298 (1996)						
	D41	Silver, et al., "Case Study In Tourette's Syndrome," J. Amer. Child & Adolesc. Psych., Vol. 35(12), pp. 1631-1636 (1996)						
	D42	Stone, et al., "Chemistry and Structure-Activity Relationship of Mecamylamine and Derivatives," Journal of						
	- · -	Medicine & Pharm. Chemistry, Vol., 5(4), pp. 665-690 (1962)						
	D43	The Merk Index, "5654. Mecamylamine," p. 905 (1989)	<u> </u>					
EXAMINER								
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